

California

California

The following is the fruit of a few short
winter excursions in the immediate neigh-
borhood of San Francisco & Mare Island
They were obtained during the winter of
1855 & 1856.

California.

As the Expedition touched at California ~~only~~ in the winter, only the following few plants were collected, chiefly in the vicinity of the Naval Station, on Mare Island, at the upper end of the Bay of San Francisco.

^{sch}
Escholtzia californica, Cham.
Stor. Phys. Berol. p. 73, t. 15. Chryseis
californica, Hook. & Arn. Bot. Beech. Voy. p.
319. C. crocea, Torr. & Gray, Fl. 1. p. 63.
— The smaller form, var. minor, Hook. &
Arn. l.c. Mare Island.

Frankenia grandifolia, Cham. &
Schlecht. in Linnaea, 1. p. 35; Hook. & Arn. l.c.
p. 135. Along the shores of Mare Island

Spergularia villosa, P. & Payson, var.
~~marina~~ media. Arenaria media, Lin.

Spergularia rufestris, Cambess. in St.
Hil. Fl. Bras. 2. p. 176, t. 110; Benth. Bot. ^{Vol.} Suppl.
p. 171. - In all probability no more than
a variety of S. rubra, but a ^{rather} well marked
one. As remarked by Chamisso and
by Torrey and Gray, ~~the plant~~ both
winged and wingless seeds are found
in different ^{capsules} ~~parts~~ of the same individual,
or even in the same capsule.

Erodium cicutarium, Linn. Mare
Island.

Notackia scoparia, Nutt. in Torr. & Gray,
Fl. 1. p. 325; Benth. Pl. Hartw. p. 306. Alca-
tras. This appears too near to N. juncea.

Lupinus arboreus, Sims, Bot. Mag.
t. 682; Benth. Pl. Hartw. l.c. L. macrocar-
pus, Hook. & Arn. l.c. Alcatraz.

Lupinus sericeus, Pursh, [?] Erchsch.;
Agardh, Syn. Lup. Mare Island, flowers
purple or light purple.

Rosa Californica, Cham. & Schlecht.
in Linnaea, 2. p. 35. Mare Island.

Frangula Californica, Gray, Gen. M. 2. p. 178.
Rhamnus Californicus, Exch. R. oleifolia, Hook. Mare Island.

Photinia arbutifolia, Lindl. Bot. Reg.
t. 491; Torr. & Gray, Fl. 1. p. 473, Mare
Island; in flower, Alcatraz; in fruit.

Dauschneria californica, Prest.,
Nel. Hank. 2. p. 28, t. 52, Mare Island.

Ribes malvaceum, Smith., in Rus.
bycl.; Torr. & Gray, Fl. N. Am. 1. p. 552.

Megarrhiza californica, Torr.

Eryngium petiolatum, Hork. Fl.
Torr. - Am. 1. p. 250, Mare Island.

Phoradendron tomentosum, Engelm.
in Gray, Pl. Fendl. p. 59, Viscum tomen-
tosum, Ab. Prodr. 4. p. 670.

Aplopappus ericoides, Hook. & Arn.
Bot. Beech. p. 146. Diplopappus ericoides,
Less., in Linnaea, 6, p. 117. Ericameria micro-
phylla, Nutt. in Trans. Amer. Phil. Soc. 7, p. 318.
Alcatraz; growing in dense bunches.

Grindelia hirsutula, Hook. & Arn.
Bot. Beech. p. 351; Torr. & Gray, Fl. 2, p. 247.
Mare Island; in salt marshes, and on the
hills. - The achenia are ^{much} compressed, an-
gital, smooth, and somewhat striate.

Baccharis consanguinea, DC.
Prodr. 5, p. 408. Alcatraz; forming small
and dense bunches.

Baccharis Douglasii, DC. Prodr. 5, p.
400; Benth., Pl. Hartw. p. 316. Mare
Island; in springy places.

Helenium puberulum, DC. Prodr. 5,
p. 667; Torr. & Gray, Fl. 2, p. 385. Salt marshes;
a form with larger heads and rays than
usual.

Hemizonia pungens, Torr. & Gray,
Fl. 2. p. 399. Hartmannia pungens,
Hook. & Arn. Bot. Beech, p. 357; Hook. Ic.
Pl. p. 344, 334. Mare Island; on
the side of bare hills.

Hemizonia ^{rudis,} ~~ramosissima~~, Benth. Bot.
Sulph. p. 30. Mare Island. - Very much
branched from a simple erect base. Rays
white above, purplish beneath. Disk chaffy
throughout, greenish white.

Coinogyne carnosus, Less. in Lin-
naea, b. p. 521. Mare Island, common
in salt marshes.

Artemisia Californica, Less. in
Linnaea, b. p. 523. A. Gischeriana, Besser
in Ob. Prodr. b. p. 105. A. abrotanoides &
A. foliosa, Nutt. Mare Island.

Achillea Millefolium, Lin. Mare
Island, in salt marshes.

Knaphalium Sprangelii, Hook. & Arn.
Bot. Beech. p. 150. Mare Island.

Macrorhynchus Lessingii, St. Prot.,
7. p. Hort. & Tru. Bot. Buch. p. 361. Truxian
aparioides, Less. in Linnaea, 6, p. 501. Mare
Island. — This is clearly Chamisso's
plant, according with his description,
and it was gathered in the same district.
The thick root is decidedly perennial.
A few of the outer achenia are pubes-
cent.

Plantago maritima, Linna. Mare
Island; on steep banks near the bay.

Salic Limonium, Linna., var.
S. California, Boiss. in St. Prot. 12, p.
643. Mare Island, in salt marshes. —
This appears to be ^{hardly distinguishable from the} ~~not more than a variety~~
of S. Limonium of the Old World, ~~with~~
and has more corymbose inflorescence
than the var. Caroliniana of the Atlantic
coast; the 2-3-flowered spikelets more
densely crowded in short and spreading spikes.
Specimens which I gathered on the western
borders of Texas (Pl. Tex. No. of the
distributed collection) manifestly connect
the eastern and the western forms.

Mimulus (Diplacus) glutinosus,
Wendl.; Jacq., Art. Schomb. 3, t. 364. Di-
placus glutinosus, Nutt.; Benth., in Sc.
Proc. 10, p. 368. Alcatraz. — The in-
sufficiency of the character of Diplacus
founded on the placentation has been
shown by Torrey and Gray.

Cordylanthus (char. Russ.)

m. sp.

Mexico and Central America

Buscuta acuminata, Nutt. Engelm.
Mun. et

Sand & Engelm. Upper portion
(2 forms)

Blitum Bonus-Henricus, Reich-
ent, var. erosum, Moq. in D.C. Prodr. 13.
p. 85. Mare Island, in salt marshes.
— This is doubtless Moquin-Tandon's plant.
But its appearance is so unlike B. Bonus-Henricus that it may well be suspected
to be specifically different.

Atriplex Californica, Moq. in
D.C. Prodr. 13. p. 98. Salt marshes of
Mare Island. — Procreant or trailing,
~~and~~ loosely branched, herbaceous; the
leaves thickish, but not coriaceous; the
larger cauline ones ovate-lanceolate and
an inch and a half long. Moquin must
have described the species from branches or
depanperate specimens.

Arthrocnemum fruticosum, Moq.
l.c. var. californicum. With the pre-
ceding.

Eriogonum nudum, Dougl. in
Benth. Eriog. p. 413. Mare Island.
A variety with solitary involucre.

Quercus agrifolia, Née; Hook.
Dec. Pl. t. 377. Alcatraz. A
small, spreading tree.

Corylus rostrata, Ait. Alca-
traz. Shrubs 4 to 8 feet high, forming thickets.
The leaves are much more downy and rounder
than the plant of the Eastern North Amer-
ica, and the beak shorter. But Hart-
weg's specimens (no. 1960) are intermediate.

no. 7 *Scirpus riparius*, Presl; Mel. Hook.
1. p. 192. *Malachochloa riparia*, Nees.
Elytrospermum californicum, C. A. Meyer,
Cyper. t. 2. Mare Island; in marshes.

Scirpus maritimus, Linn. Mare
Island; in salt marshes.

Triglochin maritimum, Linn. Mare
Island; in salt marshes.

Ruppia maritima, Linn. Mare
Island.

Gymnogramma triangulare,
Kaulf.; Hook. & Grev. Sc. Fil., t. 315,
Mare Island; on banks by the sea-side.

Pteris aquilina, Linn. Alcatraz,
Exactly the ^{common} European form.

Allosorus andromedae-folius, Kaulf.
Anal. Pterid. p. 18, t. 11. Mare Island.
This is the true plant of Chamisso
and Kaulfuss, with a creeping rhizome
and blunt pinnules; and not the same
as Hartweg's no. 2042, which has muc-
ronate-pointed pinnules, a tufted caudex,
&c. - and is ~~A. mucronatus~~ has been character-
ized by ^{Mr.} Eaton under the name of A.
mucronatus.

Aspidium argutum, Kaulf. Enum.
Fil. p. 242; Hook. & Arn. Bot. Beech. p. 162.
In thickets, Alcatraz. - This has been
referred to A. rigidum; but it differs
notably in size and aspect from the
European plant.

California